WHAT IS CLAIMED IS:

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1	A piezoelectric element formation member, comprising:
2	a substrate, in which first internal electrode layers and second internal
3	electrode layers are alternately laminated while sandwiching piezoelectric
4	material layer therebetween, the first internal electrode layers being exposed to
5	a first end face of the substrate, and the second internal electrode layers being
6	exposed to a second end face of the substrate which is opposite to the first
7	end face;
8	a first external electrode layer formed on the first end face and a third
9	end face connecting the first end face and the second end face, the first
10	external electrode layer being electrically connected to the first internal
11	electrode layers; and
12	a second external electrode layer formed on the second end face and
13	the third end face, the second external electrode layer being electrically
14	connected to the second internal electrode layers, and being electrically
15	independent from the first external electrode layer, wherein:
16	the first external electrode layer and the first internal electrode layers
17	are to be divided by slits extending from the first end face to form a plurality of
18	piezoelectric elements arrayed in a first direction; and
19	the second external electrode layer includes:
20	a pair of first sections provided on both end portions of the third end
21	face in the first direction, and having a first dimension in a second direction

a second section provided between the first sections, and having a

perpendicular to the first direction; and

- 24 second dimension in the second direction which is less than the first 25 dimension.
- 1 2. The piezoelectric element formation member as set forth in claim 1. 2 wherein the second dimension is substantially zero.
- 1 3. The piezoelectric element formation member as set forth in claim 1. 2 wherein a dimension of the second section in the first direction is greater than
- 3 a dimension in the first direction of a region where the first external electrode
- 4 layer is formed.
- 1. The piezoelectric element formation member as set forth in claim 1,4 %
- 2 wherein the first sections and the second section are connected in a stepwise
- . .3 manner.

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- 1 5. The piezoelectric element formation member as set forth in claim 1,
- 2 wherein the first sections and the second section are connected by third
- 3 portions each dimension in the second direction of which is gradually varied
- 4 from the first dimension to the second dimension.
- 6. A method of manufacturing a piezoelectric element formation member, 2 comprising steps of:
- 3 preparing a substrate, in which first internal electrode layers and 4 second internal electrode layers are alternately laminated while sandwiching 5 piezoelectric material layer therebetween, the first internal electrode layers

being exposed to a first end face of the substrate, and the second internal electrode layers being exposed to a second end face of the substrate which is opposite to the first end face;

placing a mask on a third end face of the substrate which connects the first end face and the second end face; and

depositing conductive material on the masked substrate such that a first external electrode layer is formed on the first end face and the third end face, and a second external electrode layer is formed on the second end face and the third end face, and such that the second external electrode layer is made electrically independent from the first external electrode layer, wherein:

the first external electrode layer and the first internal electrode layers are to be divided by slits extending from the first end face to form a plurality of piezoelectric elements arrayed in a first direction; and

the mask is configured such that the second external electrode layer includes:

a pair of first sections provided on both end portions of the third end face in the first direction, and having a first dimension in a second direction perpendicular to the first direction; and

a second section provided between the first sections, and having a second dimension in the second direction which is less than the first dimension.

7. The manufacturing method as set forth in claim 6, wherein the mask is configured such that the second dimension is substantially zero.

- 1 8. The manufacturing method as set forth in claim 6, wherein the mask
 2 is configured such that a dimension of the second section in the first direction
 3 is greater than a dimension in the first direction of a region where the first
 4 external electrode layer is formed.
- 9. The manufacturing method as set forth in claim 6, wherein the mask is configured such that the first sections and the second section are connected in a stepwise manner.
- 10. The manufacturing method as set forth in claim 6, wherein the mask
 2 is configured such that the first sections and the second section are connected
 3 by third portions each dimension in the second direction of which is gradually
 4 varied from the first dimension to the second dimension.
- 1 11. The manufacturing method as set forth in claim 6, wherein the mask is configured such that a plurality of piezoelectric formation members each of which is as set forth in claim 6 are simultaneously formed.
- 1 12. A piezoelectric actuator unit, wherein a fourth end face opposite to the third end face of the piezoelectric element formation member as set forth in claim 1 is joined to a fixation board in a cantilevered manner, such that a portion of the piezoelectric element formation member closer to the first end face becomes a free end.

- 13. The piezoelectric actuator unit as set forth in claim 12, wherein the slits are extended to at least an end of the first external electrode layer formed on the third end face and closer to the second end face.
 - 14. A liquid ejection head, comprising:

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- 2 the piezoelectric actuator unit as set forth in claim 12;
 - a drive wiring, comprising a plurality of electrodes electrically connected, through contacts, to the divided ones of the first external electrode layer and the second external electrode layer, to supply signals for driving the piezoelectric elements; and
 - a vibration plate, which forms a part of each of pressure generating chambers communicated with a nozzle orifice from which an ink droplet is ejected,
 - wherein the second external electrode layer is electrically connected to at least two of the electrodes in the drive wiring via the first sections thereof.